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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/783,918	02/15/2001		Louis L. Hsu	728-191 1344 (YOR9-2000-0786)	
•	7590	02/13/2003			
Paul J. Farrel		,	EXAMINER		
Dilworth & Ba 333 Earle Ovin Uniondale, NY	ngton Blvd		HO, HOAI V		
Omondate, NT 11933				ART UNIT	PAPER NUMBER
•				2818	0
				DATE MAILED: 02/13/2003	8

Please find below and/or attached an Office communication concerning this application or proceeding.

1		Application No.		Applicant(s)	1						
•	•	09/783,918		HSU ET AL.							
٠	Office Action Summary	Examiner		Art Unit							
		Hoai V. Ho		2818	<u> </u>						
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply										
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status											
1) 🗌	Responsive to communication(s) filed on	·									
2a) <u></u>	This action is <b>FINAL</b> . 2b)⊠ T	This action is non-	īnal.								
3)□											
Disposition of Claims											
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.											
4a) Of the above claim(s) <u>17-20</u> is/are withdrawn from consideration.											
5) Claim(s) is/are allowed.											
6)⊠ Claim(s) <u>1,2 and 4-16</u> is/are rejected.											
7) 🖾	7)⊠ Claim(s) <u>3</u> is/are objected to.										
8)□	Claim(s) are subject to restriction and	or election requir	ement.								
Applicati	on Papers										
9) The specification is objected to by the Examiner.											
10)🛛	The drawing(s) filed on <u>15 February 2001</u> is/a										
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).											
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.											
If approved, corrected drawings are required in reply to this Office action.											
12)☐ The oath or declaration is objected to by the Examiner.											
Priority u	ınder 35 U.S.C. §§ 119 and 120										
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).											
a) ☐ All b) ☐ Some * c) ☐ None of:											
<ol> <li>Certified copies of the priority documents have been received.</li> </ol>											
2. Certified copies of the priority documents have been received in Application No											
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.											
14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).											
a) ☐ The translation of the foreign language provisional application has been received.  15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.											
Attachmen		. ,									
1) 🔀 Notic 2) 🔲 Notic	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	_	Interview Summar Notice of Informal Other:	y (PTO-413) Paper Patent Application (	No(s) PTO-152)						

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Application/Control Number: 09/783,918

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1. Claims 1-16 are presented for examination.

2. Applicant's election of claims 11-20 without traverse in Paper No. 5 is acknowledged.

### Drawings

3. It is requested that all blocks of Figure 5 be labeled with English language descriptions. For example, a block 508 will be labeled as "memory controller." Correction is required.

#### Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- (e) the invention was described in-
- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in

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section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).
- 5. Claims 1, 2 and 5-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Matsumiya et al. USP 6344990.

Figure 6 or 7 of Matsumiya is directed to a memory array system comprising a plurality of memory cells (MC00-/MC50) arranged in a data array and wordline decoding circuitry (WD) for receiving a control signal (RA1) for activating one of a single wordline (col. 12, lines 55-57) and at least two wordlines (col. 12, lines 65-67) of a plurality of wordlines traversing the plurality of memory cells during a data array accessing cycle.

# Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Matsumiya et al. USP 6344990.

Matsumiya discloses all the subject matter claimed except for wherein said wordline activating means includes a first and a second line shifter and a wordline driver circuit having

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Figure 3.

wordline drivers for activating a respective one of the plurality of wordlines. However,

Matsumiya, starting at column 9, line 66 and column 10, lines 5 and 6, discloses that the

wordline WL is driven at a stepped-up voltage Vpp. Therefore, it would have been obvious to a

person of ordinary skill in the art at the time invention was made to recognize that Matsumiya

could have the line shifter in order to stepped-up voltage of the wordline.

8. The prior art made of record and not relied upon is considered pertinent to applicants' disclosure. Barth, Jr., et al. USP6272054 and Arimoto et al. USP 6449204 (see elements 5-8 of Figure 11) disclose a twin-cell memory architecture.

## Allowable Subject matter

- 9. Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 10. The following is a statement of reasons for the indication of allowable subject matter:

  Claim 3 includes allowable subject matter since the prior art made of record and

  considered pertinent to the applicant's disclosure, taken individually or in combination, does not

  teach or suggest the claimed invention having wherein said logic circuit includes two pairs of

  transmission gates and first and second NAND logic gates coupled to a respective pair of the two

  pairs of transmission gates, wherein each pair of transmission gates receives the control signal,

  one of the two logic inputs, and an inverse input of one of the two logic inputs as shown in

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11. When responding to the office action, Applicants are advised to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist the examiner to locate the appropriate paragraphs.

12. A shortened statutory period for response to this action is set to expire 3 (three) months and 0 (zero) day from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned (see MPEP 710.02 (b)).

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to whose telephone number is (703) 308-4839. Other inquiries of this application should be called to (703) 308-0956 or the fax number (703) 308-7722.

///// H. Ho

January 14, 2003

MA

Hoai V. Ho Primary Examiner

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